

**ABSTRACT OF THE DISCLOSURE**

A structural integrity monitoring system includes a piezoelectric sensor that is adapted to be secured to or embedded within an item of interest. A resistive element is placed in series with the piezoelectric sensor. An output from the series combination of the resistive element and the sensor is conditioned and then transmitted wirelessly to a remote location. An interface located at the remote location receives the transmitted signal, determines the content of the signal and provides an output indicative of the structural integrity of the item of interest.

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